

**METHOD AND APPARATUS FOR GENERATING A COHERENT LASER BEAM
AND METHOD FOR MAKING A HOLOGRAM TO BE USED THEREIN**

ABSTRACT OF THE DISCLOSURE

5 An apparatus for generating a coherent laser beam from an
emission of a series of diode lasers, comprising at least one
row of source diodes and a system for transforming the
primary light emission emitted by the source diodes into
secondary coherent light emission, wherein the system for
10 transforming the primary emission into secondary coherent
light emission includes a hologram, which comprises an image
of an interference pattern of the primary light emission and
the secondary coherent light emission, so that when
illuminating the hologram with the primary light emission,
15 the hologram reflects the secondary coherent light emission
and in that a mirror is provided in the path of the secondary
coherent light emission, which reflects at least some of the
secondary coherent light emission via the hologram to the
diode lasers.